

Claims

What is claimed and desired to be secured by Letters Patent is as follows:

1. A mounting apparatus for attaching an RF tag to a conveyor trolley having a wheel with a hub, an outer rim, and a recess formed between the hub and the outer rim, said mounting apparatus comprising a block of material to which the RF tag is secured, said block being shaped to be received within the recess and securable to the wheel.
2. The mounting apparatus as in Claim 1 wherein the RF tag is at least partially imbedded in said block.
3. The mounting apparatus as in Claim 1 wherein said block is of an annular or partially annular shape which closely conforms to an annular recess in the wheel.

4. A mounting apparatus for attaching an RF tag to a conveyor trolley having a wheel with a hub, an outer rim, and a web connecting the outer rim to the hub, the web comprising a plurality of spokes separated by openings, the spokes having a thickness which is less than the thickness of the outer rim such that first and second annular recesses are formed between the hub and the outer rim on respective sides of the spokes, the mounting apparatus comprising a first block of material to which the RF tag is secured, said first block being shaped to be receivable within the first annular recess of the trolley wheel, said first block securable to the wheel.
5. The mounting apparatus as in Claim 4 wherein said first block is formed of a plastic material and the RF tag is at least partially imbedded therein.
6. The mounting apparatus as in Claim 4 wherein said first block is of an annular or partially annular shape which closely conforms to the annular recess.
7. The mounting apparatus as in Claim 4 wherein said first block is shaped to extend into one of the openings in the web.

8. The mounting apparatus as in Claim 4 wherein said first block is securable to the web of the wheel by a clamping member and a fastener, said clamping member positionable in the second annular recess opposite said first block, said fastener extendable through one of the openings in the web to secure said clamping member to said first block and to draw said first block and said clamping member together against the web.
9. The mounting apparatus as in Claim 8 wherein said clamping member is a second block of material shaped to be receivable within the second annular recess of the trolley wheel opposite said first block.
10. The mounting apparatus as in Claim 9 wherein said second block is formed of a plastic material.
11. The mounting apparatus as in Claim 9 wherein said second block is of an annular or partially annular shape which closely conforms to the annular recess.
12. The mounting apparatus as in Claim 9 wherein said second block is shaped to extend into one of the openings in the web.

13. A conveyor trolley comprising:
 - a) a strap having first and second legs connected by an arch;
 - b) a wheel having a hub, an outer rim, and a web connecting said outer rim to said hub, said web having a thickness which is less than the thickness of said outer rim such that an a first annular recess is formed between said hub and said outer rim; said wheel being rotatably mounted on an axle between said first and second legs of said strap;
 - c) a hook extending downward from said first leg for suspending a load therefrom; and
 - d) an RF tag mounted in said first annular recess for transmitting an identifying signal.
14. The conveyor trolley as in Claim 13, wherein said RF tag is imbedded in a first block of material shaped to conform to a portion of said first annular recess.
15. The conveyor trolley as in Claim 13 wherein said first annular recess is adjacent said second leg and said second leg terminates proximate said axle.
16. The conveyor trolley as in Claim 14 wherein said web comprises a plurality of spokes separated by openings, and said first block is shaped to extend into one of said openings between said spokes.

17. The conveyor trolley as in Claim 16 and further including:
 - a) a second annular recess on the opposite side of said web from said first annular recess; wherein
 - b) said first block is mounted in said first recess by a clamping member seated in said second recess and secured to said first block by a fastener such that said first block and said clamping member abut opposite sides of at least one of said spokes with said fastener extending through said one opening.
18. The conveyor trolley as in Claim 17 wherein said clamping member is a second block of material shaped to conform to a portion of said second annular recess.
19. The conveyor trolley as in Claim 18 wherein said second block is shaped to extend into said one opening.
20. An identification system for a conveyor trolley having a wheel for engaging a track, the wheel including a hub, an outer rim, and a web connecting the hub to the outer rim, the web having a thickness less than the thickness of the outer rim, the identification system comprising an RF tag embedded in a block of material shaped to fit between the hub and outer rim of the wheel and securable to the web.

21. A method of attaching an RF tag to a conveyor trolley having a wheel with a hub, an outer rim, and a recess formed in the wheel between the hub and outer rim, said method comprising the steps of:

- a) embedding said RF tag in a block of material shaped to fit within the recess;
- b) placing said block in the recess; and
- c) securing said block to the wheel.

22. A method of attaching an RF tag to a conveyor trolley having a wheel with a hub, an outer rim, and a web connecting the hub to the outer rim, the web having a thickness which is less than the thickness of the outer rim, said method comprising the steps of:

- a) embedding said RF tag in a block of material shaped to fit between the hub and outer rim of the wheel adjacent the web; and
- b) attaching said block to the web in a protected position between the outer rim and the hub.

23. A method of attaching an RF tag to a conveyor trolley having a wheel with a hub, an outer rim, and a web connecting the hub to the outer rim, the web comprising a plurality of spokes with openings formed therebetween, the web having a thickness which is less than the thickness of the outer rim such that first and second annular recesses are formed between the hub and the outer rim on respective sides of the web, said method comprising the steps of:

- a) securing said RF tag to a block of material shaped to fit into one of said annular recesses;
- b) placing said block in the first annular recess;
- c) placing a clamping member in the second recess opposite said block;
- d) connecting said clamping member to said block with a threaded fastener extending through one of the openings in the web;
- e) tightening said threaded fastener to draw said block and said clamping member together and against said spokes.